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1. Document ID: US 20050089027 A1

AB: The present invention enables a multi-wavelength band to be maintained as an optical signal through only a band switch, and provides a switch node with expandable capacity for switching data optically.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De

2. Document ID: US 20030163555 A1

AB: A hierarchical and distributed control architecture for managing an optical communications network. The architecture includes a line card manager level for managing individual line cards in an optical switch, a node manager level for managing multiple line cards in an optical switch/node, and a network management system level for managing multiple optical switches/nodes in a network. An event manager at the node manager level enables software components that are running at the node manager to register for and receive events, and to post events. The events may be triggered, e.g., by a change in a status of the switch, or an alarm condition. Control architecture functionalities include signaling, routing, protection switching and network management. Furthermore, the network management function includes a topology manager, a performance manager, a connection manager, a fault detection manager, and a configuration manager.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De

3. Document ID: US 20030091267 A1

AB: A node management architecture for use at an optical switch/node in an optical communications network. A software task is provided for managing each line card according to a type of the line card. The architecture may identify the line card type, and assign a corresponding software task to manage it. To avoid delays, unassigned software tasks may be created ahead of time for managing line cards that are later installed at the optical switch. Furthermore, different types of software tasks are provided for managing corresponding different types of line cards, while software tasks that manage the same type of line card may be organized as an array of the same type. Moreover, the software tasks may act as an intermediary between the line card managers and other software processes at the node manager, such as a database manager, alarms manager, or optical cross-connect manager.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

4. Document ID: US 20030026525 A1

AB: An optical switch architecture in an optical communications network. The imminent removal of a line card from a slot at the optical switch is detected to inform an associated software process/manager that manages the line card that it is going to be removed. The movement of a locking mechanism that locks the line card in its slot triggers a message to a Node Manager that the line card is about to be removed. The software process knows that it will not be able to communicate with the line card, such as to request data or transmit commands. Moreover, the software process knows to not set an alarm for a malfunctioning line card since it will not receive any responses from the removed line card. The software process also maintains information related to the line card during its removal for use when the line card is subsequently re-installed.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

5. Document ID: US 20030023709 A1

AB: A Line Card Manager (LCM) and Node Manager architecture for use at an optical switch in an optical communications network. LCMs are provided for managing different line cards at the switch, and a Node Manager at the switch manages the LCMs. The Node Manager and LCMs exchange messages using a message-passing interface. The messages may include, e.g., read messages that enable the node manager to retrieve monitored parameter values that the LCM receives from its line card, write messages that enable the node manager to write provisioning data to the LCM, alarm messages that allow the LCMs to report alarm conditions to the node manager, an audit message that enables the node manager to verify a presence of the line card at the optical switch, and discovery messages that allow a LCM to announce its presence to the node manager, e.g., after rebooting.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

6. Document ID: US 20020176131 A1

AB: An optical communications network having at least one optical switch connected to a network access device. The optical switch includes a first line card disposed along a first communications path over which a first optical signal is transmitted. The first line card is connected to the network access device. A second line card is disposed along a second communications path over which a second optical signal is transmitted. An inter-card communication channel is provided for bridging the second path to the first line card. The system enables the rapid switching of traffic from the first optical path to the second optical path.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 7. Document ID: US 20020174207 A1

AB: A hierarchical network management system (NMS) in which a plurality of NMS managers, each responsible for different portions or aggregations of a communications network, are logically arranged in a tree structure. The NMS managers are further organized into various sub-groups. The NMS managers within each sub-group monitor the status of one another in order to detect when one of them is no longer operational. If this happens, the remaining operational NMS managers of the sub-group collectively elect one of them to assume the responsibility of the non-operational NMS manager. The NMS is thus "self-healing" in the sense that one NMS manager can dynamically, without operator intervention, assume the responsibilities for another NMS manager.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☐ 8. Document ID: US 20020165962 A1

AB: A Line Card Manager (LCM) architecture for use at an optical switch in an optical communications network. A LCM with a dedicated processor is provided for different line cards at the switch. The LCM includes a first interface, such as a connector to the line card, for receiving monitored parameters from the line card, and a processor that executes software for determining when an event such as a fault should be set, e.g., when a monitored parameter is out of range. The LCM has a second interface to a local area network at the switch for reporting the event to a Node Manager, which manages the LCM. The LCM is preferably a removable plug-in module of the line card to allow easy upgrades and maintenance. The LCM includes generic software for managing different types of line cards.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Des

☑ 9. Document ID: US 20020097747 A1

AB: A communications network has multiple resource-allocation layers and incorporates a management structure for allocating resources to allocate resources requested by a first layer of said layers from a second of said layers. At a first layer, the management structure provides an indication to a second layer of the required resources that are to be allocated from the second layer. The second layer automatically offers the required resource together with a condition for use of those resources. This condition includes a notional price factor which is dependent on current demand. Under the control of the manager, the first layer determines if the condition for use of the offered resources is acceptable and, if so, automatically accepts the offered resources from the second layer. In a preferred embodiment, ingress to an underlying multi-

wavelength transport layer of the network is controlled via a virtual port which allocates traffic to real ports one for each wavelength supported by the transport layer.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Des

☑ 10. Document ID: US 6868539 B1

AB: A system and method is provided that facilitates the administration of an application in accordance with the present invention. The system includes a resource identifier that identifies resources associated with the application and a manifest that logs the resources. An aggregator is provided that aggregates a subset of the resources into the manifest to facilitate administration of the application. The aggregator can be provided by a user interface and/or an automated builder. A graphical user interface is also provided to facilitate deployment, creation and enumeration of the application.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 11. Document ID: US 6731832 B2

AB: An optical switch architecture in an optical communications network. The imminent removal of a line card from a slot at the optical switch is detected to inform an associated software process/manager that manages the line card that it is going to be removed. The movement of a locking mechanism that locks the line card in its slot triggers a message to a Node Manager that the line card is about to be removed. The software process knows that it will not be able to communicate with the line card, such as to request data or transmit commands. Moreover, the software process knows to not set an alarm for a malfunctioning line card since it will not receive any responses from the removed line card. The software process also maintains information related to the line card during its removal for use when the line card is subsequently re-installed.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

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